FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours per response.	0.5								

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* Dunbar Geoffrey C					2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]								Relationship eck all appli Directo	cable)	g Perso	on(s) to Issu 10% Ow Other (s	/ner	
	(First) (Middle) RGACEPT, INC. ST FIRST STREET, SUITE 300					3. Date of Earliest Transaction (Month/Day/Year) 09/18/2009								below)	vP, Clin. Dev. & Reg. Affairs			
(Street) WINSTO	DN- N	NC 27101				4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	idividual or Joint/Group Filing (Check Applicable X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(S	tate)	(Zip)															
		Tab	le I - No	n-Deri	vativ	e Se	curi	ties Ac	quired	, Dis	sposed o	f, or Be	neficial	ly Owned				
Date		Date	ate //onth/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. r) 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			Benefici Owned I	es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	ction(s)			(Instr. 4)	
Common Stock			09/18	8/2009	/2009					11,000) A	\$1.75	34	34,755		D		
Common Stock 09/2			09/1	8/2009	2009		S		11,000	D	\$17.19	1 23,755			D			
			Table II -								osed of, converti			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Dat if any (Month/Day/Yo	Date,	Code (In				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amo of Securities Underlying Derivative Secur (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares					
Stock Option (Right to	\$1.75	09/18/2009			M			11,000	(1)		10/30/2013	Common Stock	11,000	\$0	6,782 ⁽	2)	D	

Explanation of Responses:

- $1.\ This\ option\ vested\ in\ installments\ and\ became\ vested\ in\ full\ on\ September\ 30,\ 2007.$
- 2. Does not include 29,638 shares subject to the unexercised portion of this option for which the exercise price is \$5.10 per share.

Remarks:

The shares covered by this Form 4 have been sold pursuant to a Rule 10b5-1 Sales Plan dated March 14, 2008, which is intended to comply with Rule 10b5-1(c) promulgated under the Securities Exchange Act of 1934, as amended.

> /s/ Peter A. Zorn, Attorney-in-Fact for Geoffrey C. Dunbar

09/18/2009

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.